Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Currently Amended) A composite material, comprising:

a fiber media, wherein said fiber media comprises at least one fiber having at least one surface projection two adjacent T-shaped lobes;

at least one intra-fiber void within adjacent T-shaped lobes, where each lobe includes a leg and a cap defining said at least one intra-fiber void having a diameter larger that than the distance between the ends of the adjacent caps;

at least one inter-fiber void; and

at least one microcell in contact with said fiber media, wherein said microcell is capable of engaging both the at least one intra-fiber void and the at least one inter-fiber void due to expansion of the at least one microcell, where the at least one microcell expands to a diameter larger than the distance between the adjacent caps.

- 2. (Original) A composite material as claimed in claim 1, wherein said fiber media is formed from a polymer.
- 3. (Original) A composite material as claimed in claim 2, wherein said polymer is selected from the group consisting of a nylon, a polyester, a polyolefin and a combination thereof.

- 4. (Original) A composite material as claimed in claim 2, wherein said polymer is selected from the group consisting of polyester, polypropylene, and nylon 6 with FAV (Formic Acid Viscosity) of at least about 65.
- 5. (Original) A composite material as claimed in claim 1, wherein said fiber media is formed from a mineral.
- 6. (Original) A composite material as claimed in claim 5, wherein said mineral is glass.
- 7. (Original) A composite material as claimed in claim 1, wherein said microcell is an expandable microsphere, whereby said expandable microsphere has an unexpanded form and an expanded form.
- 8. (Original) A composite material as claimed in claim 7, wherein said unexpanded form is capable of passing into and out of said intra-fiber void and wherein said expanded form is inhibited from passing into and out of said intra-fiber void.

- 9. (Currently Amended) A composite material as claimed in claim 1, wherein said surface projection is a <u>T-shaped lobes are</u> continuously longitudinal lobes.
- 10. (Currently Amended) A composite material as claimed in claim 1, wherein said fiber has at least two surface projections three T-shaped lobes, and said surface projections T-shaped lobes are continuously longitudinal lobes.

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11. (Currently Amended) A composite material, comprising:

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a fiber media, wherein said fiber media is formed from a polymer and said fiber media comprises at least one fiber having a shape factor of at least about 1.5 and having at least one surface projection two adjacent T-shaped lobes;

at least one intra-fiber void within adjacent T-shaped lobes, where each lobe includes a leg and a cap defining said at least one intra-fiber void having a diameter larger that than the distance between the ends of the adjacent caps;

at least one inter-fiber void; and

at least one expanded microcell in contact with said fiber media, wherein said expanded microcell is capable of engaging both the at least one intra-fiber void and the at least one inter-fiber void due to expansion of the at least one microcell, where the at least one microcell expands to a diameter larger than the distance between the adjacent caps.

- 12. (Original) A composite material as claimed in claim 11, wherein said shape factor is between about 1.5 and about 6.
- 13. (Original) A composite material as claimed in claim 11, wherein said shape factor is between about 2 and about 4.
- 14. (Original) A composite material as claimed in claim 11, wherein said polymer is selected from the group consisting of a nylon, a polyester, a polyolefin and a combination thereof.
- 15. (Original) A composite material as claimed in claim 11, wherein said polymer is selected from the group consisting of polyester, polypropylene, and nylon 6 with FAV (Formic Acid Viscosity) of at least about 65.

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16. (Currently Amended) A composite material as claimed in claim 11, wherein said surface projection is a <u>T-shaped lobes are</u> continuously longitudinal lobes.

17. (Currently Amended) A composite material, comprising:

a fiber media, wherein said fiber media is formed from a polymer selected from the group consisting of polyester, polypropylene, and nylon 6 with FAV (Formic Acid Viscosity) of at least about 65, said fiber media comprises at least one fiber having a shape factor of between about 1.5 and about 6 and having at least two continuously longitudinal <u>T-shaped lobes</u>;

at least one intra-fiber void within adjacent T-shaped lobes, where each lobe includes a leg and a cap defining said at least one intra-fiber void having a diameter larger that than the distance between the ends of the adjacent caps;

at least one inter-fiber void; and

at least one expanded microsphere in contact with said fiber media, wherein said expanded microsphere is capable of engaging both the at least one intra-fiber void and the at least one inter-fiber void due to expansion of the at least one microcell, where the at least one microcell expands to a diameter larger than the distance between the adjacent caps.

18. (Currently Amended) A method for producing a composite material, comprising the steps of:

providing a fiber media, said fiber media comprises at least one fiber having at least one surface projection two T-shaped lobes;

forming at least one intra-fiber void and at least one inter-fiber void;

defining said at least one intra-fiber void within adjacent T-shaped lobes each having a leg and a cap, where said at least one intra-fiber void has a

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diameter larger that than the distance between the ends of the adjacent caps; and

incorporating at least one microcell into said fiber media, wherein said microcell is capable of engaging both the at least one intra-fiber void and the at least one inter-fiber void due to expansion of the at least one microcell, where the at least one microcell expands to a diameter larger than the distance between the adjacent caps; and

entrapping the at least one microcell within the at least one intrafiber void.

- 19. (Original) A method for producing a composite material as claimed in claim 18, wherein said microcell is an expandable microcell, and further comprising the step of applying a triggering energy capable of expanding said expandable microcell.
- 20. (Original) A method for producing a composite material as claimed in claim 18, wherein said fiber media is formed from a polymer.
- 21. (Original) A method for producing a composite material as claimed in claim 20, wherein said polymer is selected from the group consisting of a nylon, a polyester, a polyolefin and a combination thereof.
- 22. (Original) A method for producing a composite material as claimed in claim 20, wherein said polymer is selected from the group consisting of polyester, polypropylene, and nylon 6 with FAV (Formic Acid Viscosity) of at least about 65.
- 23. (Original) A method for producing a composite material as claimed in claim 18, wherein said fiber media is formed from a mineral.

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- 24. (Original) A method for producing a composite material as claimed in claim 23, wherein said mineral is glass.
- 25. (Currently Amended) A method for producing a composite material, comprising the steps of:

providing a fiber media, wherein said fiber media is formed from a polymer selected from the group consisting of polyester, polypropylene, and nylon 6 with FAV (Formic Acid Viscosity) of at least about 65, said fiber media comprises at least one fiber having a shape factor of between about 2 and about 4, and having at least two continuously longitudinal T-shaped lobes;

forming at least one intra-fiber void and at least one inter-fiber void;

defining said at least one intra-fiber void within adjacent T-shaped lobes each having a leg and a cap, where said at least one intra-fiber void has a diameter larger that than the distance between the ends of the adjacent caps;

incorporating at least one expandable microcell into said fiber media, wherein said expandable microcell is capable of engaging said intra-fiber void both the at least one intra-fiber void and the at least one inter-fiber void due to expansion of the at least one microcell, where the at least one microcell expands to a diameter larger than the distance between the adjacent caps;

applying a triggering energy to said expandable microcell, wherein said triggering energy is capable of expanding said expandable microcell; and entrapping the at least one microcell within the at least one intrafiber void.